

C A T A L O G U E O F

PRESS BRICK and ROOFING TILE

 MACHINERY 

Up-Draft, Down-Draft
and Continuous Kilns,
Kiln Furnaces, Etc.

ILLINOIS SUPPLY
AND
CONSTRUCTION CO
S T . L O U I S . M O

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THE Brick and Roofing Tile Machinery, Kilns and Furnaces shown herein are the result of over twenty-five years experience of the Inventor in the Press-Brick and Roofing Tile Industry, and required many years of deep thought and study in order to bring same to present state of perfection. The principal points which were ALWAYS before the Inventor, were SIMPLICITY, STRENGTH, POWER and DURABILITY, in the construction of the Machinery, Kilns and Furnaces, and we flatter ourselves that these points have been fully met and can say WITHOUT fear of contradiction that our Machinery, Kilns and Furnaces are actual LEADERS, and results are fully GUARANTEED by their use.

ILLINOIS SUPPLY & CONSTRUCTION CO.
ST. LOUIS, MO., U. S. A.

THE GRATH PATENT SPECIAL BRICK PRESS.

Patent No. 791,262. May 30, 1905.

SIMPLEST, STRONGEST AND BEST PRESS BUILT.

The GRATH SPECIAL BRICK PRESS is the result of the application of *correct* mechanical principles, backed by years of practical experience in the demands of dry press brick-making. As a consequence, this machine can not be equaled in the quality of its product, the simplicity of its construction, or the ease with which it is kept in repair.

The mechanical movement of the Grath Press is such that the full pressure is kept on the brick for the greatest time possible. The result is a brick which is absolutely perfect and uniform throughout, without flaw, seam or granulation.

The maximum pressure on the clay takes place near the bottom of the mold, and when the bricks are pushed out, the top plunger remains on same until they are nearly out of the mould, thus giving a beautiful polish and solidity to the brick.

The clay is also subjected to *several alternate* pressures, and by reason of these separate pressures, the clay is moving in the mold while it is being pressed. The result is that there is no seam or granulation of any kind whatever around the middle of the face of the brick, and there are no weak corners on the brick, which are glaring defects in the work of nearly all other machines.

The strain of pressure of the bricks is *taken up by steel rods*, and *not by the frame*, as is the case with other machines.

The construction is such that the changing of molds and the adjustment for the thickness of brick is easily and quickly accomplished.

The upper and lower plungers are heated by steam in such a way as to effectually prevent all clogging with clay, thus permitting the machine to run continuously without the necessity of stopping to clean it.

The points of superiority in the Grath Brick Press are as follows:

1. It exerts immense pressure without danger of breakage.
2. It leaves no seam around the brick.
3. All edges of bricks perfect.
4. Simplest in construction.
5. Beautiful polish on the bricks.
6. Strain is equally divided on both sides of the press.
7. It is doubly geared.
8. It has two Master Wheels.
9. No side strain.
10. No cross breaking strain.
11. Straight pull-back.
12. Balanced Double Charger and Lift Out Movements.
13. Impossible to twist crank shaft.
14. Guaranteed Unbreakable.
15. Guaranteed to make better Brick than *any* other Brick Press.
16. Most perfect in Mechanical Principle.

THE "GRATH" PATENT SPECIAL BRICK PRESSES

ARE THE MOST MODERN BEFORE THE PUBLIC
AND MOST PERFECT IN MECHANICAL
CONSTRUCTION -- SIMPLEST AND BEST.

MANUFACTURED IN FOLLOWING SIZES:

FOR DRY OR SEMI-DRY CLAY AND SAND-LIME

2, 3, 4 and 5 Moulds,

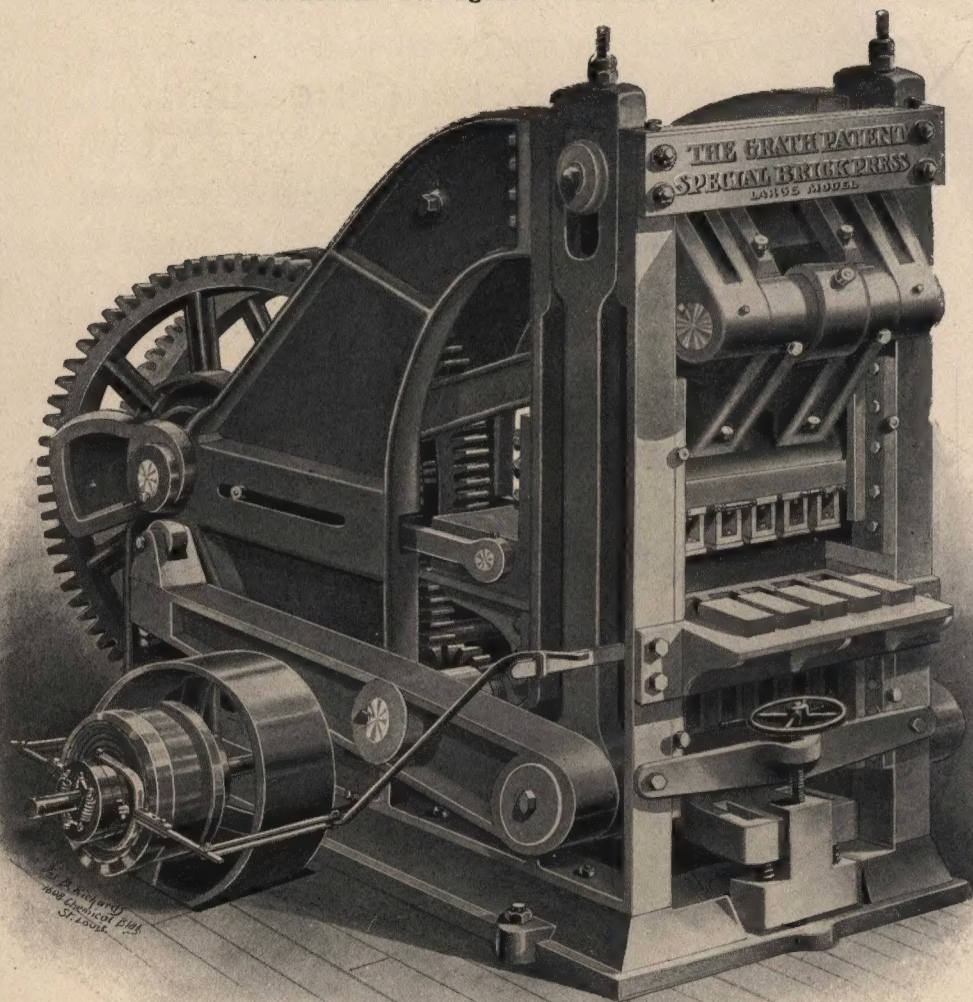
Capacity, 4,500 to 5,500 per Mould.



We guarantee the "Grath" Special Brick Press to be the *Simplest*,
Strongest and most *Powerful* Brick Press ever built and to make
better brick than can be made on any other Brick Press, not excepting
any. Also to be unbreakable.

**THE GRATH PATENT FIVE-MOULD SPECIAL BRICK
PRESS FOR DRY OR SEMI-DRY CLAY OR SAND
LIME BRICK OF HIGHEST GRADE.**

**Also suitable for making Roman, Norman, Cuban and Spanish
size brick. Strongest Press ever built.**



DESCRIPTION.

Weight, 32,000 pounds. Horse Power to operate, 10 Horse Power.
Capacity from 25,000 to 30,000 brick per day, ten hours.

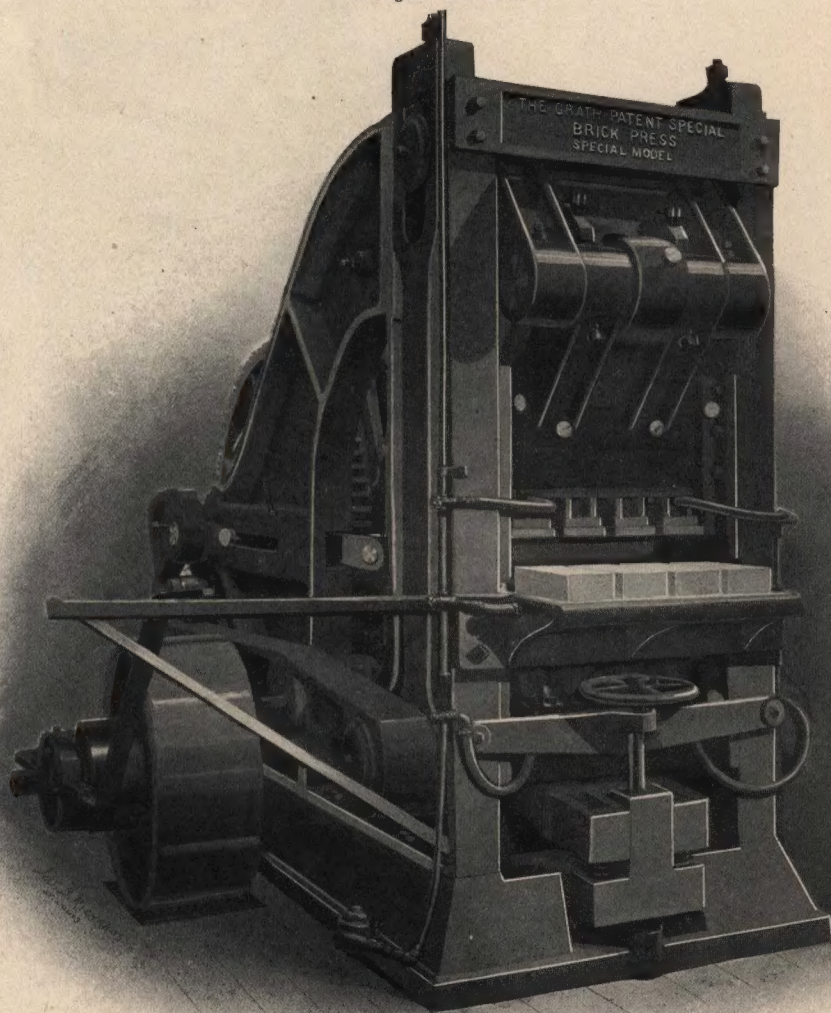
Guaranteed against breakage and to make better brick than any
other Brick Press in the market.

THE GRATH PATENT SPECIAL BRICK PRESS.

Special Model.

Showing Press equipped for making Four Cuban or Spanish Size Brick $12\frac{1}{4}" \times 5\frac{7}{8}" \times 2\frac{3}{4}"$. The combined area of these four brick is equal to EIGHT American Size Brick.

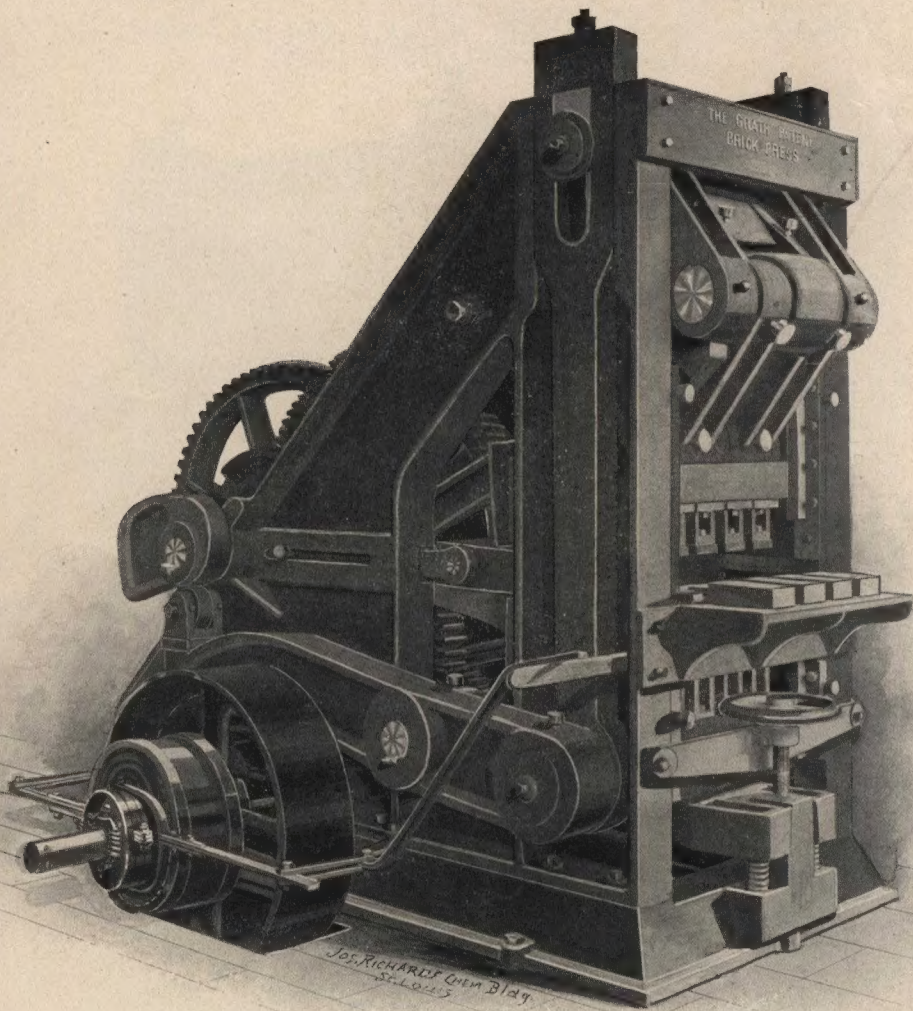
Strongest Press Built.

**DESCRIPTION.**

Weight, 32,000 pounds; Horse Power to operate, 12 to 15 Horse Power; Capacity from 18 to 20,000 per day, ten hours.

Guaranteed against breakage and to make better brick than any other Brick Press.

**THE GRATH PATENT SPECIAL FOUR-MOULD BRICK
PRESS, FOR DRY OR SEMI-DRY CLAY AND
SAND-LIME BRICK OF HIGHEST GRADE.**

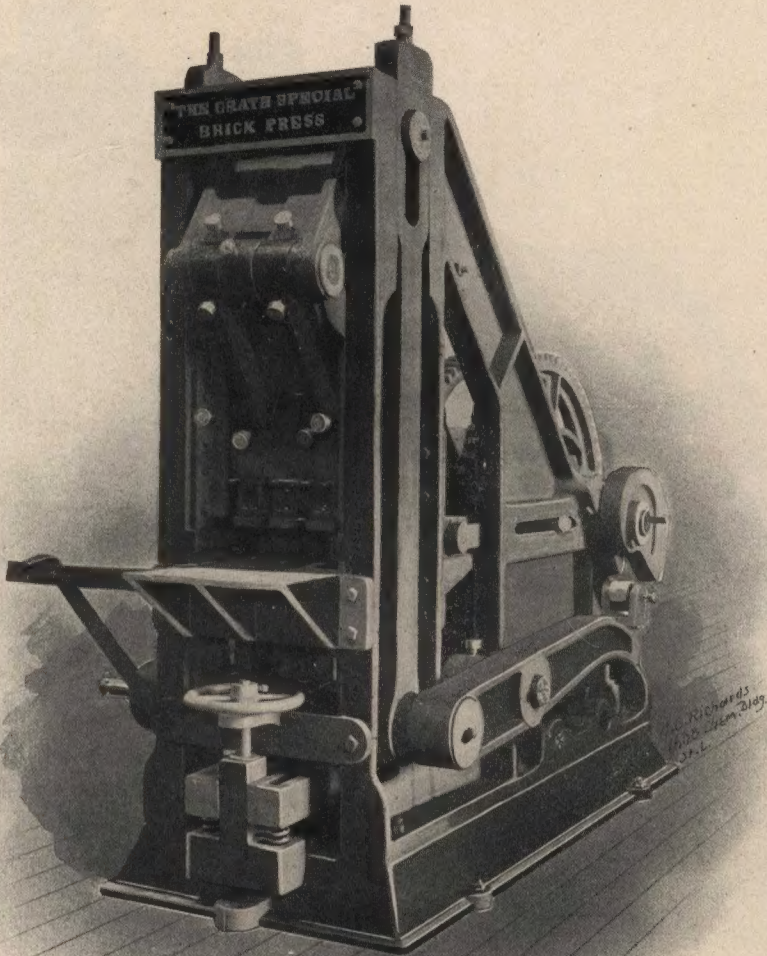


DESCRIPTION.

Weight of Four Mould Press, 28,000 pounds, Horse Power to run it, 8 Horse Power. Capacity, 20,000 to 24,000 brick per day of ten hours.

Guaranteed against breakage and to make better brick than any other Brick Press in the market.

**THE GRATH PATENT TWO AND THREE-MOULD SPECIAL
BRICK PRESS FOR DRY AND SEMI-DRY CLAY
AND SAND-LIME BRICK OF HIGHEST GRADE.**



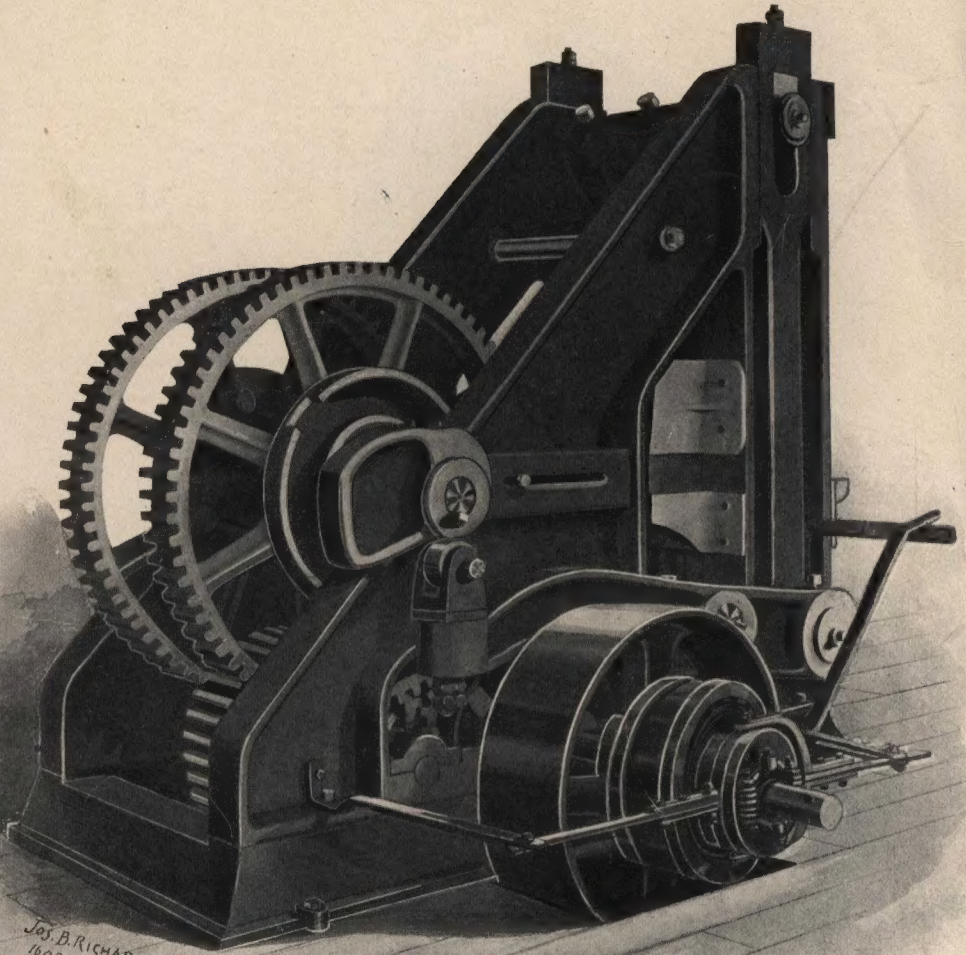
DESCRIPTION.

Weight of two and three Mould Press, 22,000 pounds; Horse Power to operate, 4 and 6 Horse Power. Capacity 5,000 per mould in ten hours.

Guaranteed against breakage and to make better brick than any other Brick Press.

THE GRATH PATENT SPECIAL BRICK PRESS.

Rear View of Four-Mould Press.



*JOS. B. RICHARDS
1808 Chemical Bldg.
St. Louis.*

DESCRIPTION.

Showing all Gears between Side Frames. This prevents all side strain on Frames, insuring straight pull back and preventing twisting of crank. No over-hanging outside Gears; not top heavy; weight in lower half of Press and evenly distributed, thoroughly self contained.

This is the **ONLY PRESS** having these features.

THE GRATH LITTLE GIANT ONE-MOULD BRICK PRESS.

In designing this Press the inventor (who is a practical brick manufacturer) did not fail to keep the following important facts and requirements before him, viz:

SIMPLICITY, POWER,
DURABILITY, COMPACTNESS,

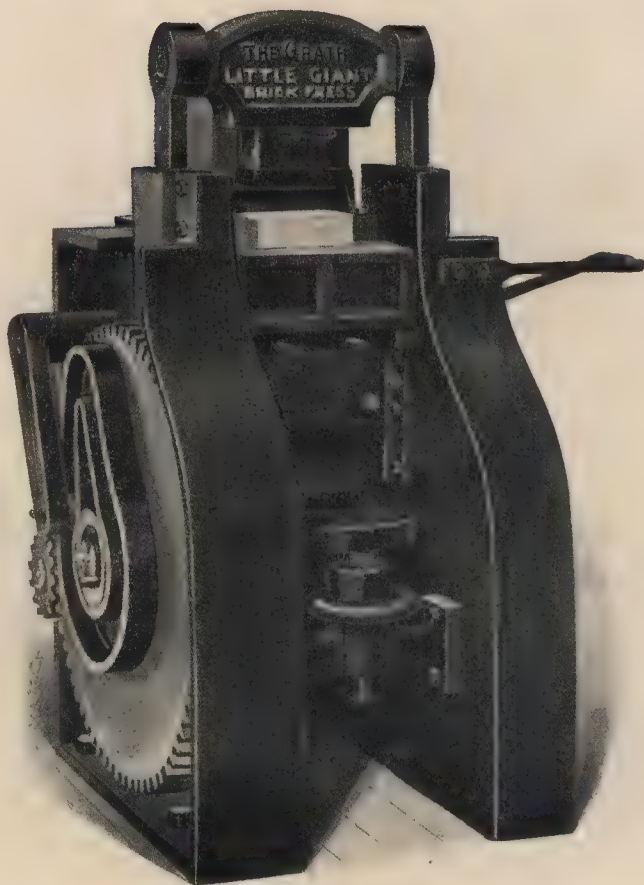
and the positive absolute necessity of a
press that will make each and every brick

A PERFECT PRESS BRICK.



This is especially true of a sand-lime brick for fronts. The construction of this press is such that the off-taker has sufficient time to *remove* the brick from the press *before* the charger starts, resulting in every brick being *perfect* as it leaves the press. No other vertical •press has this feature. The bricks are pressed from both top and bottom and every brick is perfect.

THE GRATH LITTLE GIANT ONE-MOULD BRICK PRESS.



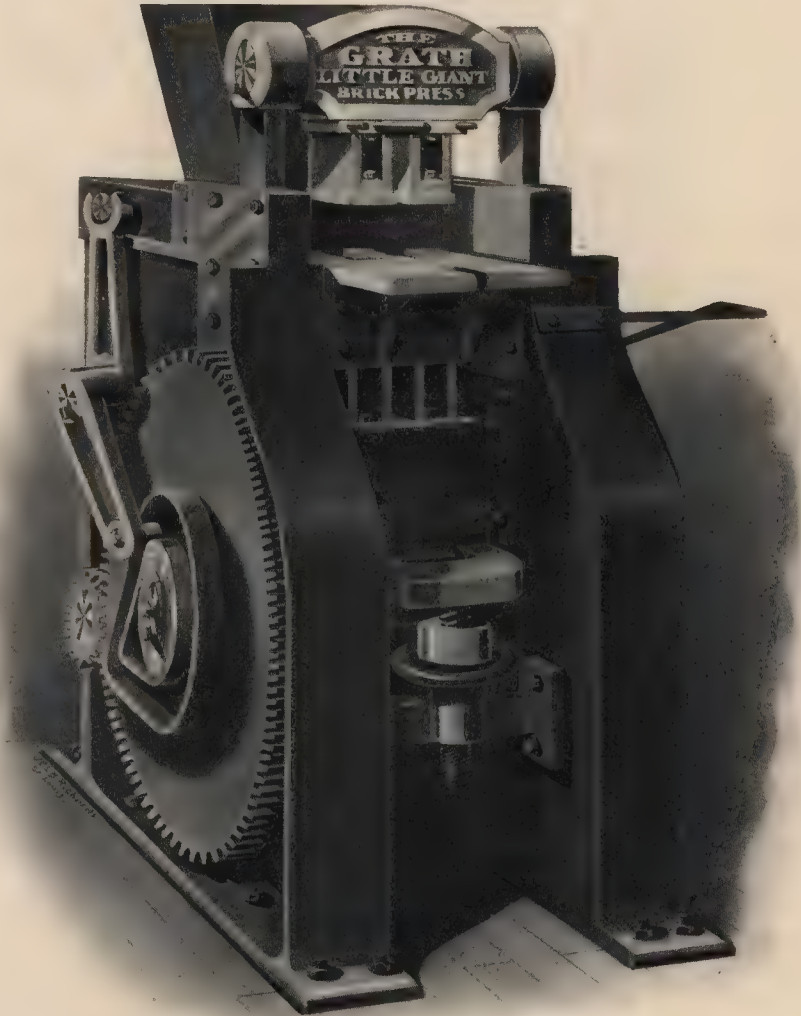
DESCRIPTION.

Weight, 5,500 pounds. Horse Power required, 3 Horse Power. Built especially for Sand-Lime Brick of finest grade for fronts.

Also suitable for Dry and Semi-Dry Clay Press Brick of finest quality. Capacity from 5,000 to 6,000 per day.

**THE GRATH LITTLE GIANT TWO-MOULD BRICK PRESS,
FOR DRY OR SEMI-DRY CLAY PRESS BRICK
OF HIGHEST GRADE.**

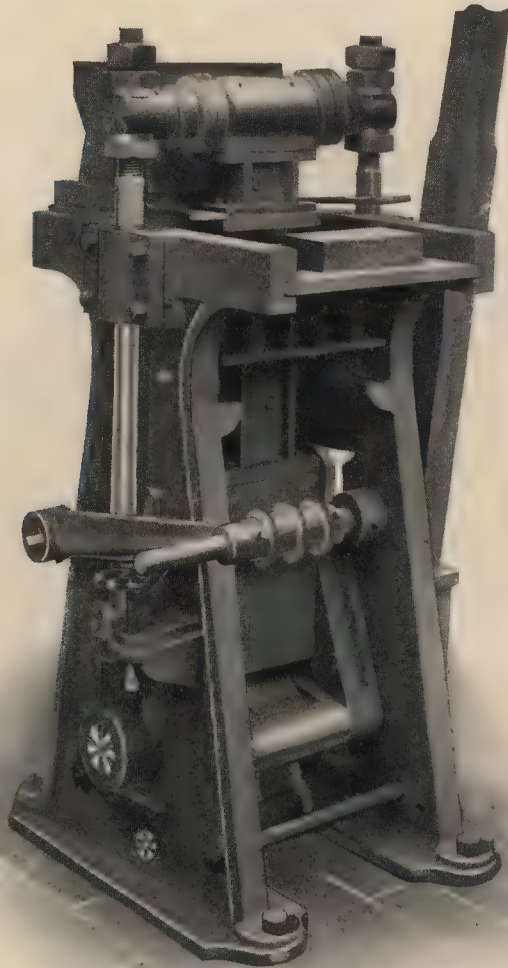
Fully Guaranteed.



DESCRIPTION.

Weight, 7,500 pounds. Horse Power required, 5 Horse Power.
Capacity from 9 to 10,000 per day of ten hours.

**THE GRATH SPECIAL PATENT HAND POWER BRICK
PRESS, FOR DRY OR SEMI-DRY CLAY AND
SAND-LIME BRICK.**



DESCRIPTION.

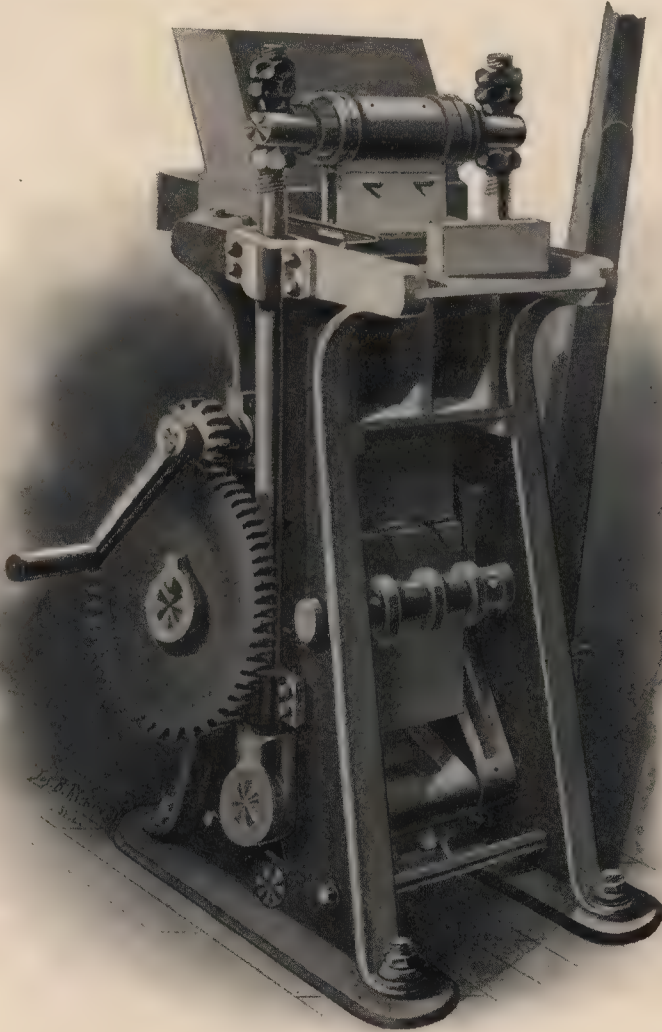
Simplest and Most Powerful in Market.

Two men can make from 1,200 to 2,000 bricks per day, depending on shape and design of the brick made. Weight, 1,700 lbs. For Standard and Roman Sizes.

Only Successful Sand-Lime Hand Power Brick Press in the market.

**THE GRATH SPECIAL PATENT HAND POWER BRICK
PRESS, FOR DRY OR SEMI-DRY CLAY
OR SAND-LIME BRICK.**

**Used where a special depth of Mould-Box is Required. Will
take as much as $9\frac{1}{2}$ inches of clay in mould.**



DESCRIPTION.

In this construction we use a Gear Lift Out for raising brick out of mould, which works very easily and smoothly.
Satisfaction Guaranteed.

THE GRATH SPECIAL PATENT HAND POWER BRICK PRESS.

The desire to have a Hand Power Press to make dry clay or *sand-lime* press brick, plain and ornamental, of various shapes and designs *equal* to those made on a *large* steam power press, has finally been gratified by the Grath *Special* Hand Power Press. This press stands in a class by itself for this purpose, as it is the *only* successful and *perfect* Hand Power Press in the market.

We guarantee this press to be unbreakable. It is simple, durable and as powerful in action as a large steam power press; all sizes, shapes and designs of plain and ornamental brick can be made on this press, and we guarantee same to be equal in hardness and density to those made on *any* large press.

Brick of any size or shape up to $12\frac{5}{8}$ inches long, 10 inches wide and 4 inches in thickness can be made on this press.

The clay or sand-lime should be in the same condition as for any large press.

The *only* successful *Hand* Power Brick Press for making Dry or Semi-Dry Clay or *Sand-Lime* Press Brick.

TO OPERATE PRESS.

Swing up Upper Plunger, pull Charger forward, drop Lower Plunger, shove back Charger, which fills mould, drop Upper Plunger, drop Large Lever, which presses the brick, raise Large Lever, raise Upper Plunger, raise Small Lever, which raises the brick out of the mould.

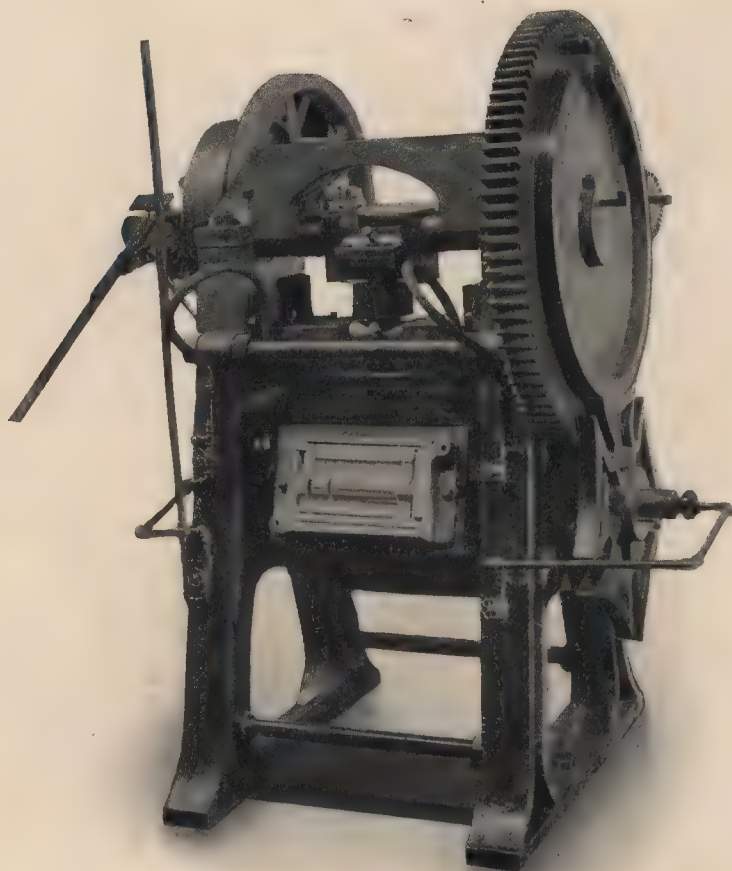
NOTE.

This Press has been *thoroughly* tested in every way and is fully guaranteed against breakage while in act of making brick from *either* Dry or Semi-Dry Clay or *Sand-Lime*. No Plant making Press Brick is complete without *this* Press.

This Press will pay for itself in one week's time.

The Grath Special Hand Power Press has now been in the market two years and there has not been any breakage on any of the Presses shipped out, and we have had as yet no repairs of any kind on any of them. This speaks for itself. We herewith give a list of Presses shipped to Purchasers, viz:

Newberg Pressed Brick & Terra Cotta Co., Newberg, Ore.
American Carbolite Co., Constantine, Mich.
Gem City Paving Brick Co., Quincy, Ill.
Diamond Stone-Brick Co., Wilmington, Del. Sand-Lime. (1)
W. W. McDonald, Coleman, Tex.
Colorado Brick & Artificial Stone Co.,
Colorado Springs, Colo. Sand-Lime.
M. J. Stone, Scranton, Pa.
Diamond Stone-Brick Co., Wilmington, Del. Sand-Lime. (2)
Dexter, E. L., Dayton, Wash.
Anderson P. & Co., Edmonton Alta, Can.
Kivett, W. M., Carthage, Mo.
Peerless Brick Co., New York City, N. Y. Sand-Lime.
Paragon Plaster Co., Syracuse, N. Y. Sand-Lime.
Quintera Mining Co. Ltd., St. Alamos Sonora, Mex.
Lazelle, E. W., Philadelphia, Pa. Sand-Lime.
Johnson, P. M., Brick Wks., St. Elmo, Ills.
Sibley-Menge Press Brick Co., Warrior, Ala.
Messrs. Rogers & Co., Barranquilla, S. A. Sand-Lime.
Lyon Ernst, Valpariso, Chili. Sand-Lime.
Rochester Composite Brick Co., Rochester, N. Y. Sand-Lime.
Stegmayer Enamel Brick Co., New York, N. Y.

THE GRATH REVOLVING ROOFING TILE PRESS.**DESCRIPTION.**

For Plaster or Metal Dies.

Simplest, Strongest and most *Powerful* Tile Press in the market.

Requires less horse power than all other makes.

All movements positive: No springs used on this Press.

Capacity, 5,000 to 6,000 Tile per day. Weight, 8,500 lbs.

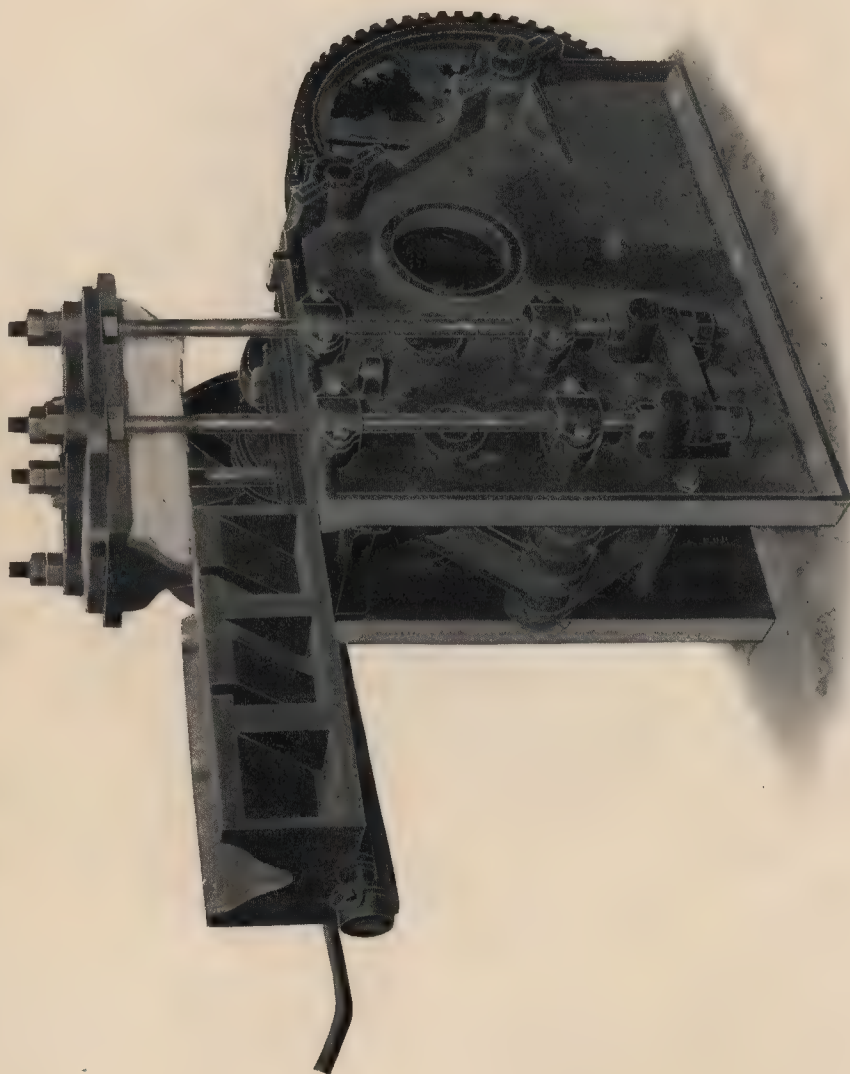
Guaranteed to give satisfaction.

THE GRATH REVOLVING ROOFING TILE PRESS

Was invented by one thoroughly practical in the Roofing Tile business and is far ahead of all other Roofing Tile Presses. The main features in clay machinery in order to prove profitable to the manufacturer is Simplicity, Strength and Durability. These features are all embodied in this press and for this reason, it is the Cheapest and Best press for the manufacturer to purchase. Both upper Cross Head and Pentagon are adjustable and fitted with heating arrangements for steam for use when metal dies are used. No steam required for Plaster Dies. We furnish dies for making either Flat interlocking, Spanish or S interlocking Tile with this Press. We furnish either Metal or Plaster Dies as preferred.

Guaranteed against breakage and to give satisfaction.

THE GRATH SPECIAL ROOFING TILE AND TRIMMING PRESS.



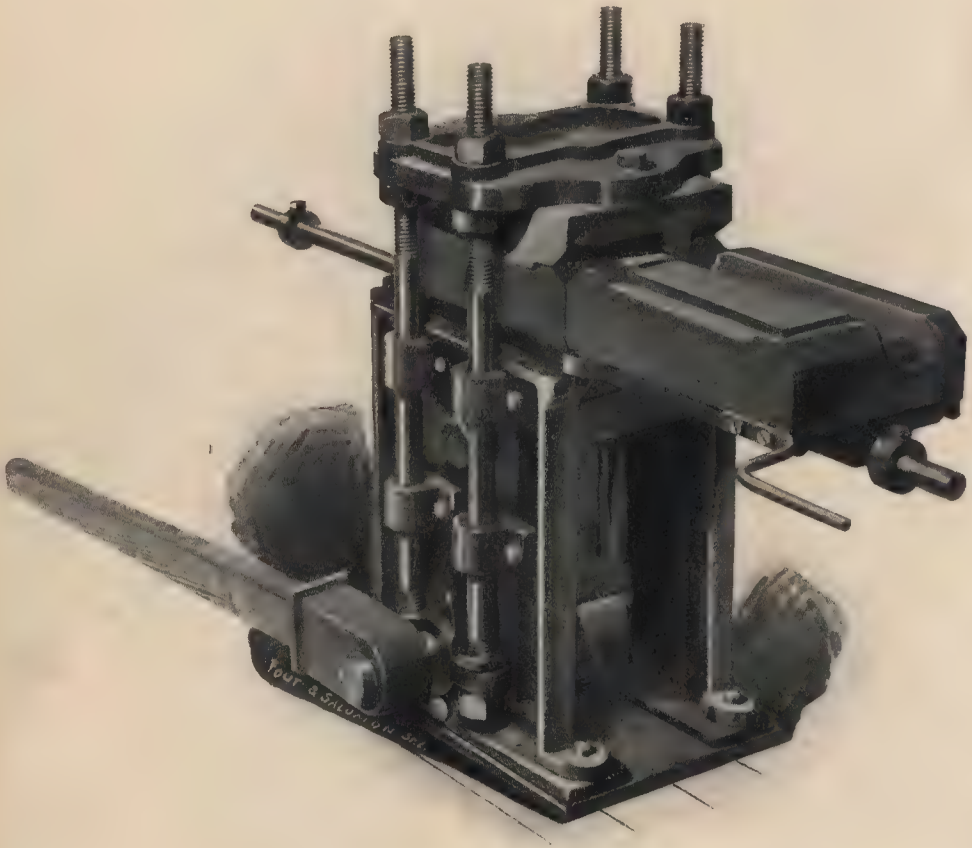
Capacity, 400 to 800 Crestings per day. 600 to 1,200 Hip or
Special Tile per day. Weight, 4,000 lbs.

THE GRATH SPECIAL ROOFING TILE AND TRIMMING PRESS



IS positively the simplest, strongest and most powerful press for making special Tile and Terra Cotta Trimmings. It comes equipped with an improved Friction Clutch Pulley and Brake and is started and stopped instantly. Crestings any length up to 24 inches can be made. Either metal or plaster dies can be used. No roofing tile plant is complete without this press, as it will pay for itself in one week's operation.

THE GRATH SPECIAL HAND POWER ROOFING TILE AND TRIMMING PRESS.



DESCRIPTION.

Capacity: 600 to 900 Crestings per day. 1,000 to 2,000 Hip or Special Tile per day. Weight 1,600 pounds.

The Grath Special Hand Power Roofing Tile and Trimming Press is the simplest and most powerful Hand Power Press ever invented; its product is equal to that made on any Steam Power Press; it is operated from both ends which makes the output very large. To operate the press to full capacity, three men are required, one at the lever and one at each end. The Press is fully guaranteed to do the work claimed for it and is always ready for work.

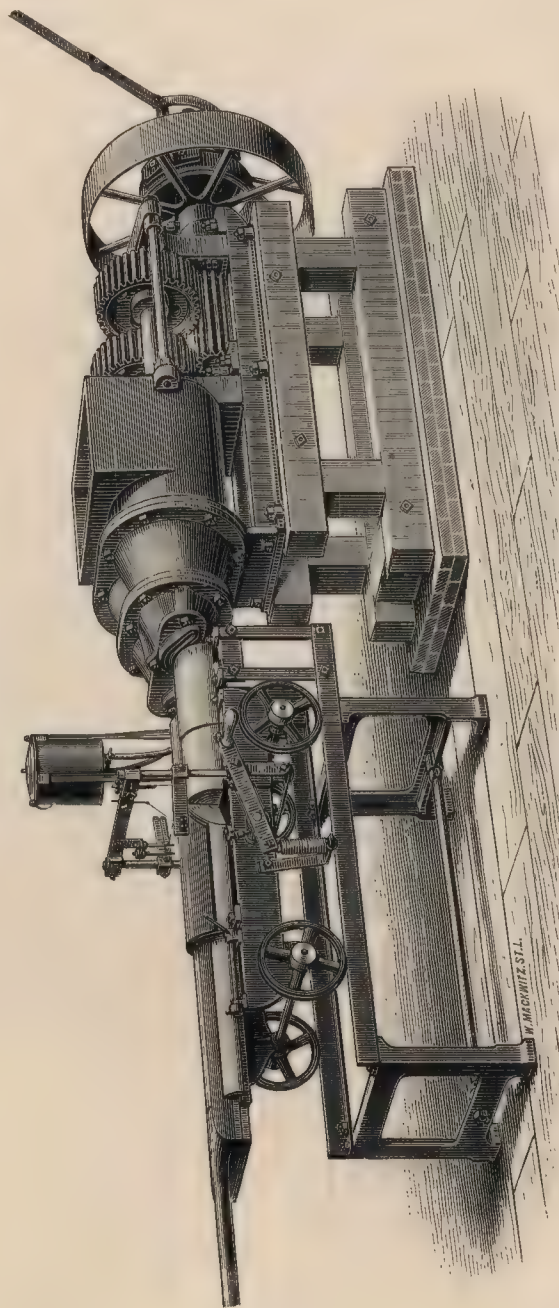
THE LITTLE GIANT AUGER MACHINE

**FOR SHINGLE, PROMENADE AND PLAIN "S"
OR SPANISH TILE.**

This machine is positively the simplest and most efficient Auger Machine for making Shingle, Promenade, S or Spanish Tile ever built. Will make a larger number of all good tile than anything of the kind in the market; is easier and cheaper to operate than all others and thoroughly guaranteed to give satisfaction in every way. This Machine, like all others in this catalogue, was invented by one who is practical and who understands from experience what is required.

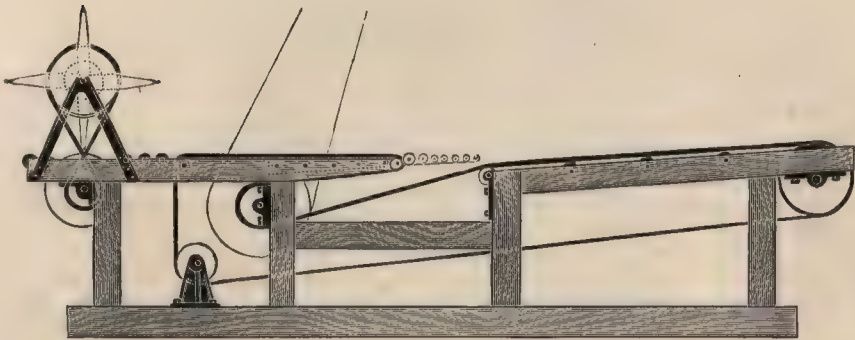
LITTLE GIANT AUGER MACHINE

Showing "S" Tile Die attached and Perfect "S" Tile Cutting and Off-Bearing Table. Tile cut to proper length, trimmed and punched by one movement of handle and by one man.



Horse Power required, 3 Horse Power; capacity, 5,000 to 7,000 S or Spanish Tile per day.
12,000 Shingle Tile per day; 12,000 Promenade Tile per day.

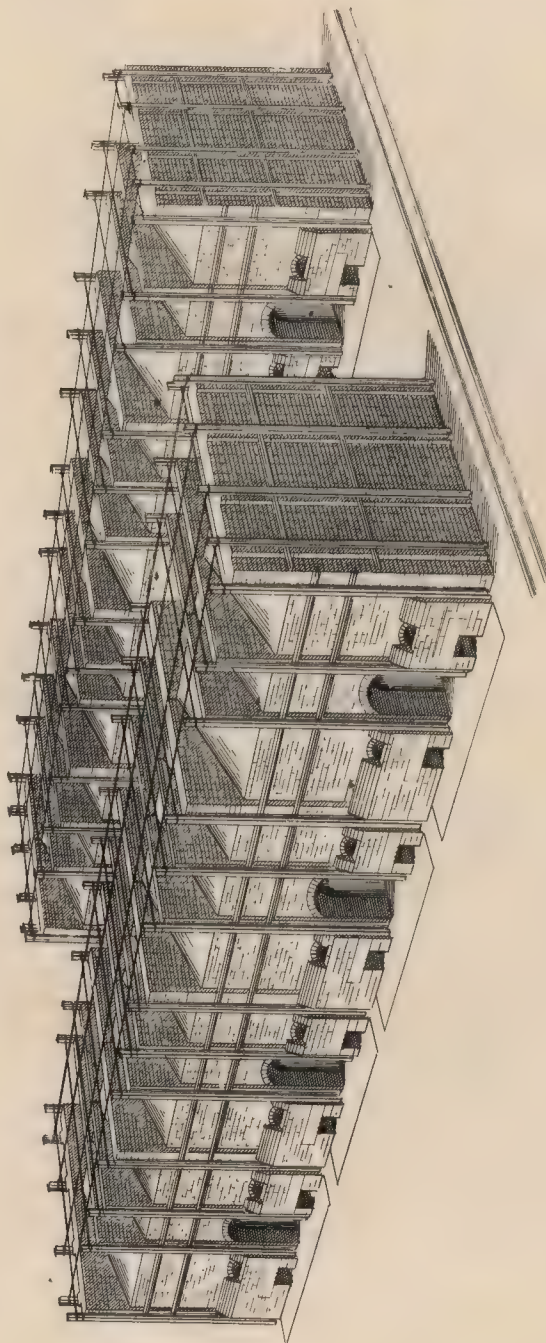
**THE PERFECT CUTTING AND OFF-BEARING TABLE
FOR SHINGLE AND PROMENADE TILE.**



Simple, Durable and Efficient. Guaranteed.

**THE GRATH NEW DOWN-DRAFT CONTINUOUS CHAMBER KILN.
PATENTED.**

The Kiln of the Future.



Fuel used either Wood, Coal, Crude or Fuel Oil, Producer or Natural Gas. Equipped with any kind of furnace desired.

THE GRATH NEW DOWN-DRAFT CONTINUOUS CHAMBER KILN.

For burning Pressed, Fire and common Brick, Sewer Pipe, Drain Tile, Roofing Tile and Stone Ware pottery.

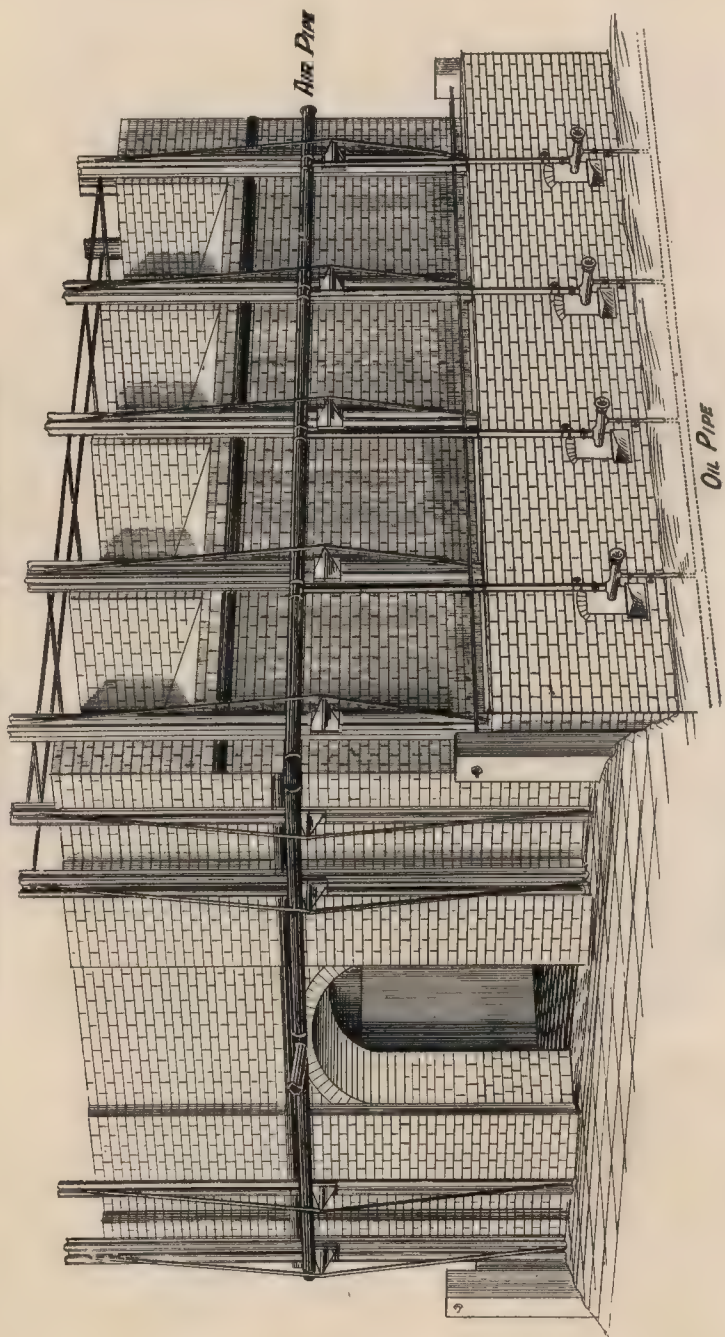
This Kiln is fired exactly like any ordinary Single Down-Draft Kiln, has furnaces and Flash Walls on both sides, but you get advantage of the waste heat after it passes through the ware in the burning chamber, which you lose in the single Down-Draft kiln. The waste heat is applied through the Furnaces exactly in same manner as the direct heat and your material or ware in the chambers is heated to a red heat from the waste heat, thus cutting your time of direct firing and your fuel bill in half and insuring better ware and better burns.

The operation is *simple* and *sure* no doubts or guess work. This kiln can be built in sections of 4, 8, 12 or 16 chambers. A complete continuous system for light ware which burns quickly; like Tile is eight chambers; for Brick, sixteen to eighteen chambers.

The chambers are built any length up to 26 feet, and width to 16 feet, height to 13 feet.

Either a Stack or Exhaust Fan can be used to create the proper draft.

THE GRATH IMPROVED DOWN-DRAFT KILN. Patented.
Showing Crude or Fuel Oil Burning Furnaces.



Equipped with any KIND of Furnaces Desired.

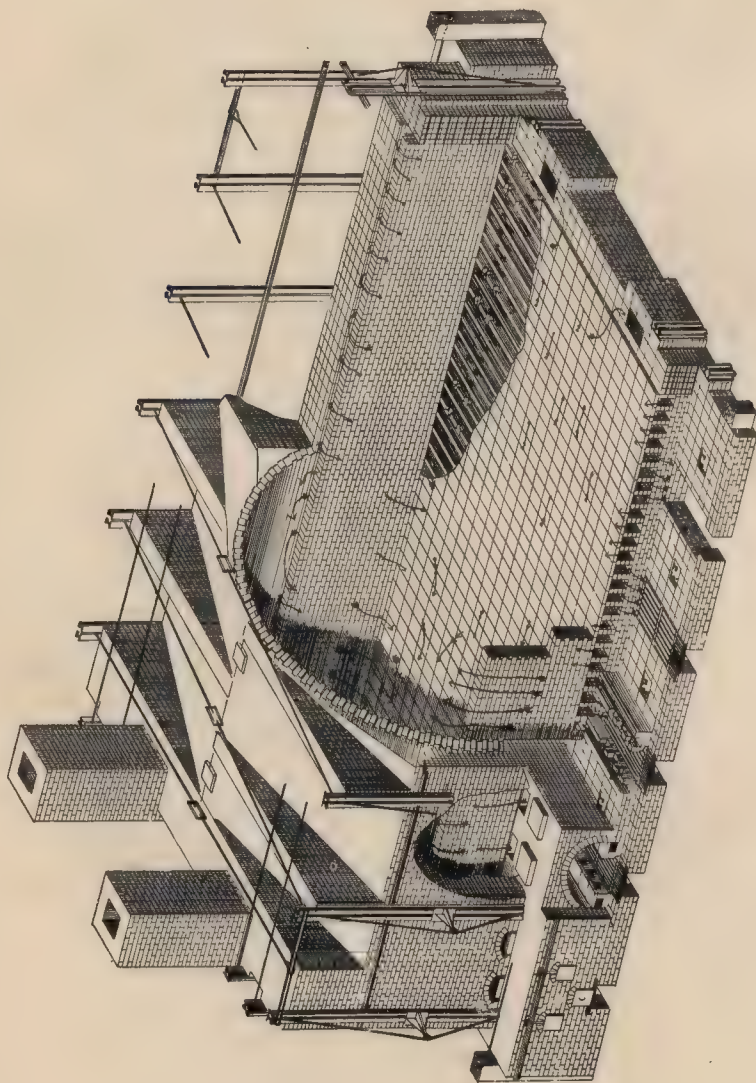
The Grath improved Down Draft Kilns are the simplest and best constructed plain Down Draft Kilns ever built and are guaranteed to *give satisfaction*. They are built of *any size* desired and equipped with any kind of Furnaces as may be preferred, and are adapted for burning *all* kinds of clay ware such as Press Brick, Paving Brick, all kinds of common Brick, Fire Brick, all kinds of Fire Clay Goods, Sewer Pipe, Drain Tile etc. These Kilns are substantial and cost very little for repairs.

GUARANTEE

Press Brick:	{	Red,	over 90 per cent first grade.
		Pink	
		White	
		Gray	
		Buff	95 per cent first grade.
		Fire and	
		Vitrified	
		Brick	

**THE GRATH COMBINED RADIATING FLOOR AND
DIRECT DOWN-DRAFT KILN.**

PATENTED.



Showing Grath Patent Coking Furnaces Attached.
Can be equipped with any style of furnace.

THE GRATH PATENT COMBINED RADIATING FLOOR AND DIRECT DOWN-DRAFT KILN.

The Perfect Kiln.

All Clay Workers have been seeking and waiting for a kiln which would produce *perfect* results in burning, and at *last* their desires are gratified, for in the above kiln there is no reason why *perfect* results should not be attained in each and every burn, if ordinary care is exercised.

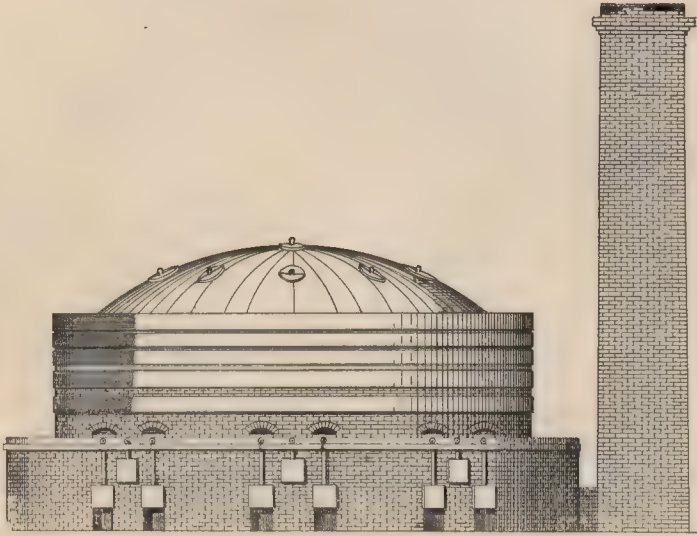
This kiln is so constructed that *all* or as much of the heat as desired, which is produced in the furnaces, can be drawn into the flues *under* the Radiating Floor at all times; or *all* or as much of the heat as is desired can be drawn directly *up* the Bag at *all* times.

The heat drawn under the Radiating Floor is drawn up the Bag on the opposite side of the furnaces from where the heat is generated, and then down through the ware and out of the kiln via the stacks. The heat drawn *directly up* the Bag comes in contact directly with the ware near the top of the kiln and descends down through the ware. Thus it will be seen that the heat can be directed to any or all parts of the kiln as desired by the operator at all times, and uniform results *must* follow. *No* other kiln has these advantages. These features being covered by our patents.

The directing of the heat is controlled entirely by the Fire Clay Dampers over each furnace.

This kiln can be built any length desired, and is as cheap to put up as any ordinary Down Draft Kiln.

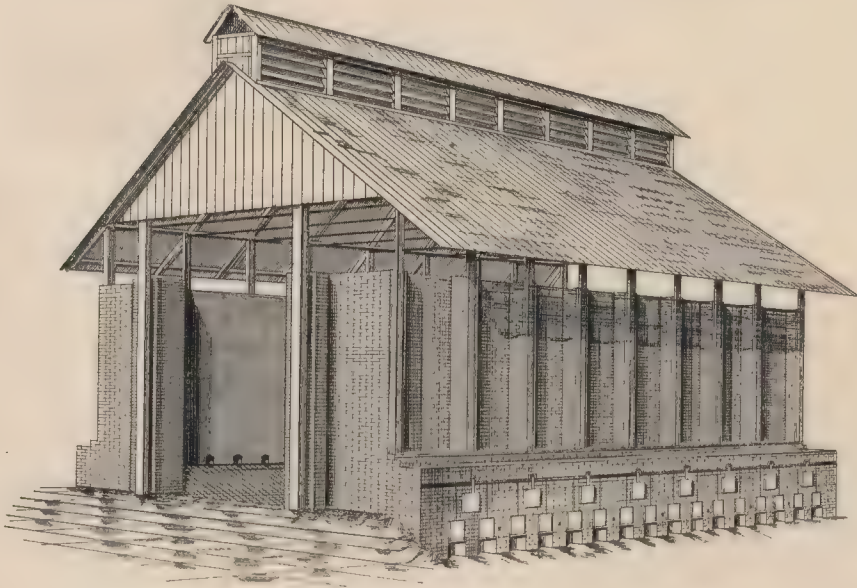
Any kind of furnace can be used with this kiln.

THE GRATH ROUND KILN.**Showing Grath Patent Coking Furnaces Attached.**

We build the Grath Round Kiln with perforated, Solid or Radiating Floor as may be preferred and guarantee either construction to give satisfaction to purchaser. Any kind of furnaces as may be preferred can be attached to these kilns.

THE GRATH UP-DRAFT KILN.

With Grath Patent Slack Coal, Gas and Coking Furnace.



This is the most economical kiln to build.

It is especially recommended where large quantities of common brick are desired, and is used for burning all sorts of common and press brick with the Grath Furnaces attached.

It is guaranteed to give the best of satisfaction, and can be built any size desired.

This kiln is constructed so that part of the heat produced in the furnaces is drawn to the center of the kiln, whereby the *center* of the ware is heated at the same time as the heads, thereby saving time and producing better results.

The kiln is twenty-six feet wide inside.

The kiln is built very simple and durable so as to cost very little for repairs to keep in good shape.

We guarantee this kiln to make *less smoke* than *any* other up draft kiln in the market. This alone is a great feature.

We guarantee a larger percentage of first-class face brick than can be burnt in any other up draft kiln.

Where the use of Slack Coal is of no special benefit or saving in money we attach the Grath Perfect Solid Bottom Furnaces, *without* Grates which are very cheap to build and easier to operate than any other furnace, and will give perfect satisfaction.

THE GRATH IMPROVED COKING FURNACE.

This furnace is the only true Coking Furnace in the market. It thoroughly cokes the fuel and practically consumes all the black smoke; it requires no grates and can be used with Coking Tables, on both sides or center as preferred. Suitable for burning cheapest grade of coal.

Guaranteed to give satisfaction.

THE GRATH PERFECT KILN FURNACE.
NO GRATES - - - NO DOORS



ARE you interested in a kiln furnace which will burn your ware in **LESS TIME**, with **LESS COAL**, **LESS SMOKE**, **LESS LABOR**, with **LESS CLINKERING** and **LESS FLASHING** than any other furnace in existence? We have such a furnace; it is the **SIMPLEST** furnace in existence, and easy to attach to either Up-Draft or Down-Draft kilns, new kilns or old kilns.

This Furnace is the latest and most modern furnace invented for burning of Lump or Mine Run Coal and can be attached to **ALL** kinds of Kilns and will do **ALL** we claim for it. It will prove a money maker to all who use it, **FULLY GUARANTEED**, can be used for burning **ALL** kinds of clay ware.

Mac Donell Brick & Cement Company, Jacksonville, Fla.

August 15th, '06.

Mr. W. P. Grath,
St. Louis, Missouri.

Dear Sir:

It gives us pleasure to state that the Three Mould Press we bought of you has more than filled all your statements and guarantees and is without a doubt the strongest press on the market. We gave it the most severe test and tried to break it, but it stood the racket and we gave up the idea of trying to break it. We found that it takes a very heavy pressure to make a good hard sand lime brick and this is the third press that we have purchased before we found one that would give us the required pressure, and our brick are pronounced by all who see them to be the hardest brick they ever saw. In trying to make brick on the first two presses we broke them all up so that they had to go to the scrap pile, as we were determined to make good brick or none. We are not like some of our competitors having to take back brick because they are too soft and we are pleased to give your press credit for a large share of our success.

We are making 24 brick per minute and keep it up all day; this is more than some of our neighbors make on their four mould presses. I was in a plant here yesterday and the superintendent said he wished their press was stronger so that they could give their brick more pressure. I told him it needed it badly. They use a ——— Four Mould, but their brick are so soft the men can hardly handle them. The ones we make on your press we can take up with two fingers in the middle of the brick or any way we wish. I have visited 15 or 20 sand-lime brick factories and have never seen a brick as hard and that could be handled any old way as the brick we make on the press we bought of you, and I wish that all brick makers had such presses as when one fails it hurts all of us. Therefore it will give us pleasure to recommend your press as the strongest and most simple to operate and the best in our judgment.

Wishing the success you deserve with this press, we remain,

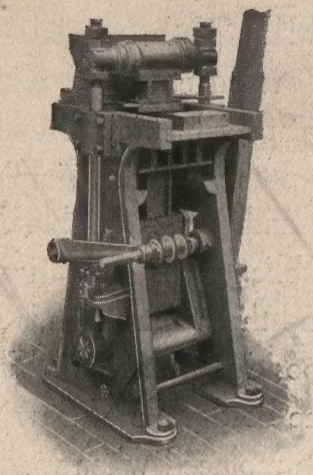
Yours Very Truly,

Mac Donell Brick & Cement Co.,
G. W. Caufield, Mgr.

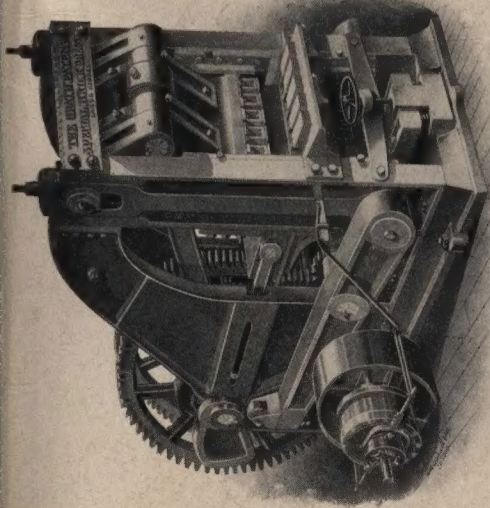


THE Grath Special Brick Presses are all equipped with the Grath Special Brick Mould which is positively the simplest, strongest and most durable Brick Mould before the public. It is gotten up on scientific principals, and the construction is such that all corners are positively perfect. The Mould is lined with the best grade of Saw Steel Liners which can be replaced when worn out without sending same to a machine shop. This Mould costs more to make than other Moulds, but it is the best.

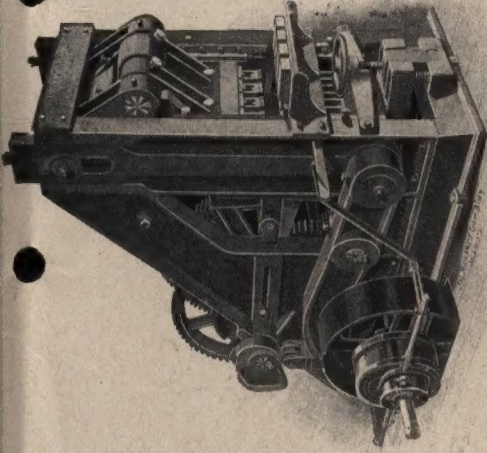
**THE GRATH SPECIAL HAND POWER MODEL
BRICK PRESS.**



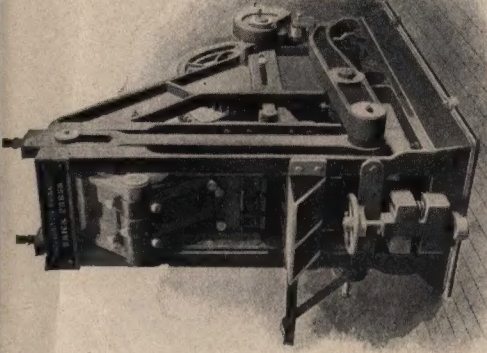
We build this press *One Quarter and One Half* sizes of the full size press specially to make Briquetts or small Press Brick one quarter and one half of the full size. They can be used not only for testing your clay from time to time, but also for making sample bricks for your salesmen and architects. Small bricks like these will be kept for paper weights by the architects and not put to one side and will aid the manufacturer in selling his product. The Briquettes made are a fac-simile of the large brick in every way. Used for Dry or Semi-Dry Clay or Sand-Lime.



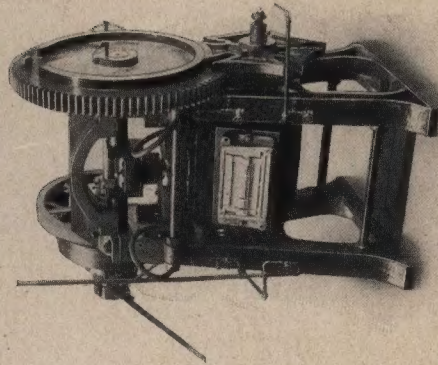
Five-Mould Special.



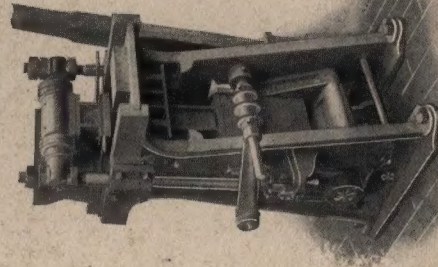
Four-Mould Special.



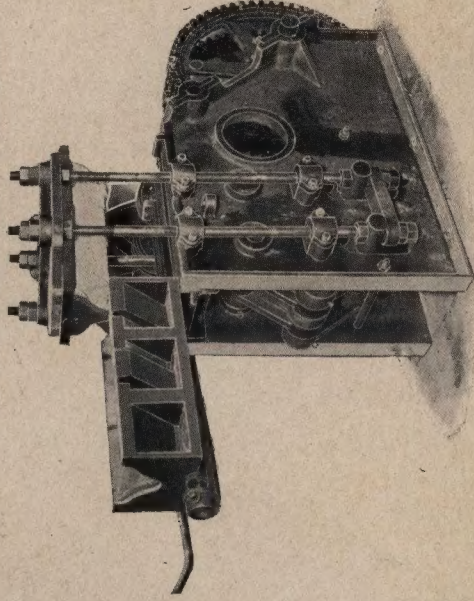
Two and Three-Mould Special.



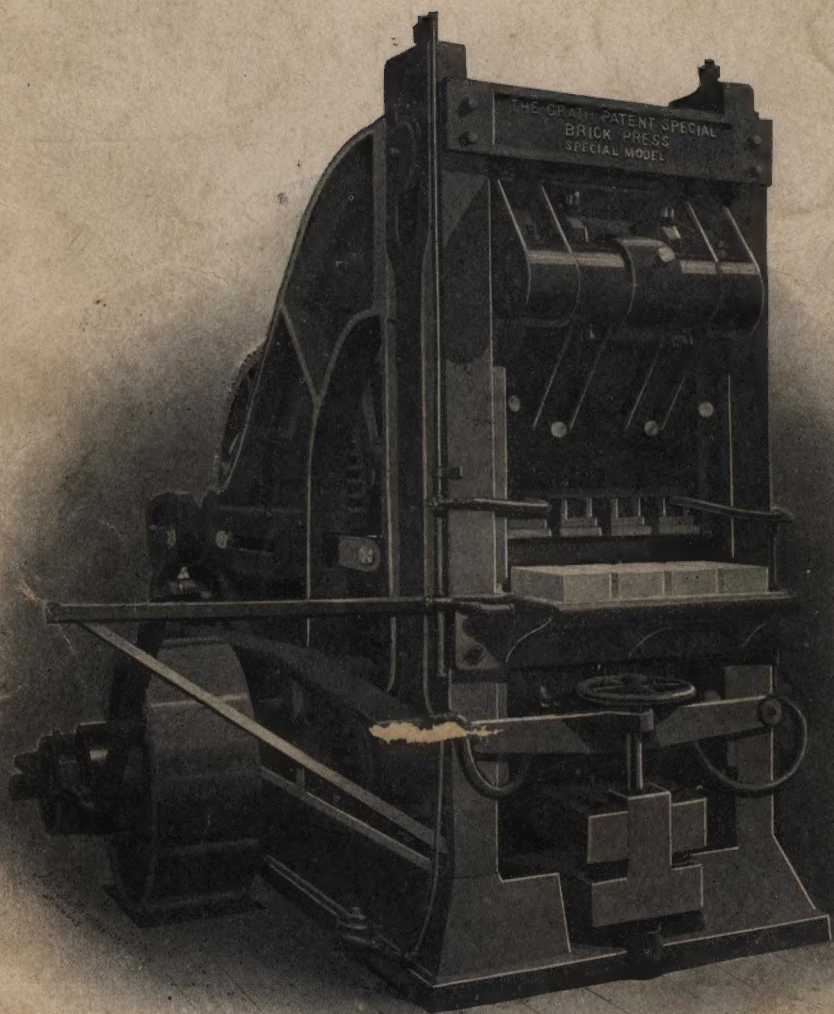
Revolving Press.



Hand Power Special.



Trimming Press.



THE GRATH PATENT SPECIAL BRICK PRESS.

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